Notice of Allowability	Application No.	n No. Applicant(s)	
	09/870,496	NAKASHIMA ET AL.	
	Examiner	Art Unit	
	Elizabeth A. Bolden	1755	
- The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31: 1.	G (OR REMAINS) CLOSED in this a of the communication or other appropriate communication and MPEP 1308. In 18 February 2005. In 18 February 2005. In 19 June	pplication. If not included on will be mailed in due course. THIS to withdrawal from issue at the initial and a mational stage application from the complying with the requirements are a mation is deficient. P948) attached Office action of tings in the front (not the back) of (d). must be submitted. Note the	ative
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summar Paper No./Mail Da 08), 7. ☒ Examiner's Amend	ate	
or biological material		KARL GROUP PRIMARY EXAMINER GROUP 735	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

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DETAILED ACTION

EXAMINER'S AMENDMENT

An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kirsten A. Grueneberg on 16 May 2005.

The application has been amended as follows:

Claims 18, 21, and 22 have been canceled.

In Claim 17, line 4 after the word "substrate", the phrase - -as claimed in Claim 1- - has been inserted.

In Claim 19, line 1 the phrase "glass substrate" has been deleted and the phrase - - magnetic disk- - has been inserted.

In Claim 20, line 1 the phrase "glass substrate" has been deleted and the phrase - - magnetic disk- - has been inserted.

In Claim 23, lines 1 and 2 the phrase "glass substrate" has been deleted and the phrase - - magnetic disk- - has been inserted.

In Claim 23, lines 4 and 5 the phrase ", and the number of attachments having sizes ranging from 1 μ m to less than 10 μ m so present, is not more than 10⁵/cm²" has been deleted.

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Allowable Subject Matter

Claims 1, 3, 5, 6, 9, 11, 13, 14, 16, 17, 19, 20, 23, and 26-28 are allowed.

Reason for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art fail to disclose or suggest a glass substrate composition having the composition as recited in the instant claims, which result in the recited properties specifically the thermal expansion coefficient, glass transition temperature and the number of attachments.

The closest prior art is deemed to be U.S. Patent 5,854,152 by Kohli et al. and U.S. Patent 6,162,750 by Miwa et al. Kohli et al. disclose a similar composition but do not teach the range of the number of attachments. While Miwa et al. disclose a similar composition but does not teach the range of the number of attachments not the glass transition temperature. Both Kohli et al. and Miwa et al. fail to expressly disclose or suggest the combined ranges for ZrO₂+TiO₂ and Al₂O₃+TiO₂.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth A. Bolden whose telephone number is 571-272-1363. The examiner can normally be reached on 9:30 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

** Please note that the Examiner, Elizabeth A. Bolden will be out of the office for an extended period of time starting on 2 June 2005 and returning approximately 27 June 2005. You can leave me a voicemail message, which I will try to check intermit tally, otherwise please contact my supervisor Jerry Lorengo at the above telephone number. Sorry for this inconvenience. **

EAB

16 May 2005

KARL GROUP
PRIMARY EXAMINER
GROUP 755